

Title (en)  
SYSTEMS AND METHODS FOR FACILITATING INTERAURAL TIME DIFFERENCE PERCEPTION BY A BINAURAL COCHLEAR IMPLANT PATIENT

Title (de)  
SYSTEME UND VERFAHREN ZUR ERMÖGLICHUNG DER WAHRNEHMUNG INTERAURALER ZEITDIFFERENZEN DURCH EINEN PATIENT MIT BINAURALEM COCHLEAIMPLANTAT

Title (fr)  
SYSTÈMES ET PROCÉDÉS POUR FACILITER LA PERCEPTION DE DIFFÉRENCE DE TEMPS INTERAURICULAIRE PAR UN PATIENT POSSÉDANT UN IMPLANT COCHLÉAIRE BINAURAL

Publication  
**EP 3319687 A1 20180516 (EN)**

Application  
**EP 16739635 A 20160630**

Priority  
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• US 2016040332 W 20160630

Abstract (en)  
[origin: WO2017011196A1] A binaural cochlear implant system (system) includes first and second microphones associated with first and second ears of a patient, respectively. The microphones detect an audio signal presented to the patient and output first and second signals representative of the audio signal as detected at the first and second ears, respectively. The system also includes a first sound processor that receives the first signal from the first microphone and the second signal from a second sound processor by way of a communication link with the second sound processors. The first sound processor generates first and second fine structure signals representative of fine structure information of the first and second signals, respectively, and generates a timing pulse signal based on the first and second fine structure signals. The first sound processor uses the timing pulse signal to represent to the patient an interaural time difference between the first and second signals.

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Citation (search report)  
See references of WO 2017011196A1

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**WO 2017011196 A1 20170119**; EP 3319687 A1 20180516; US 10342976 B2 20190709; US 2018193642 A1 20180712

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